

Title (en)
LIQUID CRYSTAL DISPLAY DEVICE

Publication
EP 0226997 A3 19881012 (EN)

Application
EP 86117429 A 19861215

Priority
JP 29055885 A 19851225

Abstract (en)
[origin: US4826297A] A liquid crystal display device comprising upper and lower substrates with electrodes on the inner surfaces thereof, at least one of said upper and lower substrates including an extended portion thereof which projects beyond the edge of the other substrate, liquid crystal material sandwiched between said upper and lower substrates, a sealing member disposed around the periphery enclosing said liquid crystal material, a driving integrated circuit chip mounted on the inner surface of said extended portion, metal film wiring formed on the inner surface of said extended portion mechanically and electrically connected to said driving integrated circuit chip via solder, polyimide resin coating covering said metal film wirings, and resin coating covering said polyimide resin for filling up pinholes in the polyimide resin coating and being of low viscosity before curing.

IPC 1-7
G02F 1/133

IPC 8 full level
H01L 23/29 (2006.01); **G02F 1/13** (2006.01); **G02F 1/1345** (2006.01); **G09F 9/00** (2006.01); **G09F 9/35** (2006.01); **H01L 23/31** (2006.01)

CPC (source: EP US)
G02F 1/1345 (2013.01 - EP US); **G02F 1/13452** (2013.01 - EP US); **H01L 2224/16225** (2013.01 - EP US)

Citation (search report)

- [A] GB 2160693 A 19851224 - CITIZEN WATCH CO LTD
- [A] GB 2142460 A 19850116 - HITACHI LTD
- [A] PATENT ABSTRACTS OF JAPAN vol. 008, no. 190 (E - 263)<1627> 31 August 1984 (1984-08-31)
- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 109 (P - 355)<1832> 14 May 1985 (1985-05-14)

Cited by
US5606194A; WO9400795A1; US6703643B2; US7924392B2; US7538849B2

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
US 4826297 A 19890502; DE 3685642 D1 19920716; DE 3685642 T2 19930121; EP 0226997 A2 19870701; EP 0226997 A3 19881012; EP 0226997 B1 19920610; JP H0682765 B2 19941019; JP S62150858 A 19870704

DOCDB simple family (application)
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